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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,073	08/06/2003	Douglas Gene Keithley	10021152-1	7215
22878	7590 10/02/2006		EXAMINER	
	TECHNOLOGIES INC.	PENDLETO	PENDLETON, BRIAN T	
INTELLECTUAL PROPERTY ADMINISTRATION, M/S DU404 P.O. BOX 7599 LOVELAND, CO 80537-0599			ART UNIT	PAPER NUMBER
			2615	
			DATE MAILED: 10/02/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicanto					
	Application No.	Applicant(s)					
	10/635,073	KEITHLEY, DOUGLAS GENE					
Office Action Summary	Examiner	Art Unit					
	Brian T. Pendleton	2615					
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time to the second will expire SIX (6) MONTHS from the cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 06 A	lugust 2003.						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.						
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application	1						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) 1-11 is/are allowed.							
6)⊠ Claim(s) <u>12</u> is/are rejected.							
7)⊠ Claim(s) <u>13-18</u> is/are objected to.	<u> </u>						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on <u>06 August 2003</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex		* *					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	ı priority under 35 U.S.C. § 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	u (PCT Rule 17.2(a)).	_					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachment(s)							
) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	ate						
Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	асели друшавин					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goodings, US

Patent 6,944,284 in view of Burns et al, US Patent 4,924,511 Goodings discloses an apparatus

comprising a digital circuit (inherently having an IC), tone generators 100 and 101, and volume

pulse control 150 for modulating the audio frequency square-wave signal generated by tone

generators 100 and 101. Goodings does not disclose a filter for filtering the modulated square

wave signal. Burns et al teach a low pass filter for filtering the high frequency harmonics from a

square wave signal. The benefit of such action was to isolate a single sine wave for

reproduction. It would have been obvious to one of ordinary skill in the art at the time of

invention to modify Goodings et al per the teachings of Burns et al for the purpose of alerting a

user via an audio transducer without unpleasant high frequency tones.

Allowable Subject Matter

Claims 1-11 are allowed.

Claims 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter:

Independent claims 1 and 7, along with dependent claim 13, recite comparing (or using a comparator) a digital count to a register holding a volume control value for forming a modulation signal and modulating the square wave audio signal with the modulation signal. The prior art of record do not disclose nor suggest digital counter or volume control value register. References Kutzavitch et al and Burgan et al each teach tone generation who volume is controlled by pulsewidth modulation. However, the references do not teach nor suggest a volume control register or digital counter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian T. Pendleton Primary Examiner Art Unit 2615

btp

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